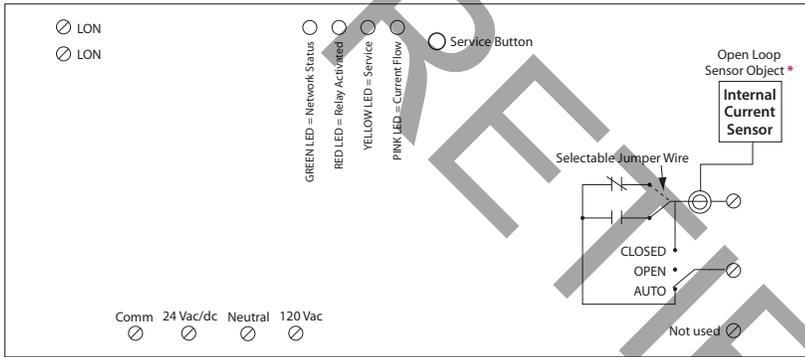


NETWORK COMPATIBLE RELAY / CURRENT SENSOR COMBO

RIBTWX2401SB-LN

Enclosed LonWorks® Twisted-Pair FT-10 Network Dual I/O Device; One Binary Output (20 Amp Relay SPST + Override); One Binary Input (Current Sensor 0.25 - 20 Amp, Relay Load Sensing), 24 Vac/dc or 120 Vac Power Input



SPECIFICATIONS

- # Relays & Contact Type:** One (1) SPST Continuous Duty Coil
- Expected Relay Life:** 10 million cycles minimum mechanical
- Operating Temperature:** -30 to 140° F
- Humidity Range:** 5 to 95% (noncondensing)
- Operate Time:** 18ms
- Green LED:** Network Status
- Red LED:** Relay Status
- Yellow LED:** Service Status
- Dimensions:** 7.00" x 4.28" x 2.00" with .75" NPT Nipple
- Track Mount:** MT212-6 Mounting Track Provided
- Approvals:** FCC, LonMark®, CE, RoHS, UL Listed, UL916, C-UL
- Housing Rating:** UL Listed, NEMA 1, C-UL, CE Approved, UL Accepted for Use in Plenum, Also available NEMA 4 / 4X
- Gold Flash:** No
- Override Switch:** Yes

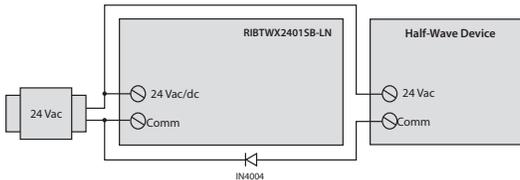
- Contact Ratings:**
 - 20 Amp Resistive @ 277 Vac
 - 20 Amp Ballast @ 120/277 Vac (N/O)
 - 10 Amp Ballast @ 120/277 Vac (N/C)
 - Not rated for Electronic Ballast
 - 10 Amp Tungsten @ 120 Vac (N/O)
 - 1110 VA Pilot Duty @ 277 Vac
 - 770 VA Pilot Duty @ 120 Vac
 - 2 HP @ 277 Vac
 - 1 HP @ 120 Vac

- Current Sensor Range:** 0.25 - 20 Amps
- Threshold fixed at .25 Amps.

- Notes:**
 - Normally Open or Normally Closed selected by yellow jumper wire.
 - Order NEMA 4 housing by adding "-N4" to end of model number. (RIBTWX2401SB-LN-N4)
 - Order with grey lid by adding "-GY" to end of model number. (RIBTWX2401SB-LN-GY)
 - Order NEMA 4 housing with grey lid by adding "-N4-GY" to end of model number. (RIBTWX2401SB-LN-N4-GY)
 - When connecting 24 Vac to both the RIB(s) and a half-wave device, damage to device can occur.
 - Option 1: Use separate transformers for each device.
 - Option 2: Add diode between devices, see Option 2 note below. ^^

- Power Input Ratings:**
 - 105 mA @ 24 Vac
 - 78 mA @ 24 Vdc
 - 105 mA @ 120 Vac

- Channel:** TP/FT-10
- Transceiver Type:** FT5000 Smart Transceiver
- Functional Blocks:**
 - 0000 Node Object
 - 0004 Closed Loop Actuator Object
 - 0001 Open Loop Sensor Object
- Downloadable Files:** PDF, XIF, APB, VSS and NXE available on website.



^^ Option 2: Add diode on 24 Vac power (Comm) interconnection between devices. Band on diode faces towards RIB(s).

| DESCRIPTION | SNVT NAME | SNVT TYPE |
|-------------------------------|-------------------|-----------------|
| Command to open/close relay | nvi Value | SNVT_switch |
| Command status of relay | nvo Value Fb | SNVT_switch |
| Default state of relay on/off | nci Default | SNVT_switch |
| Communication timer | nci Max Receive T | SNVT_elapsed_tm |
| Status of Binary Input | nvo Value | SNVT_switch |
| Invert status of Binary Input | nci Invert | SNVT_lev_disc |
| Max time between updates | nci Max Send T | SNVT_elapsed_tm |
| Min time between updates | nci Min Send T | SNVT_elapsed_tm |

The relay will go to the default state when the communication timer times out. Setting the timer value to zero will cause the communication to never time out.

It is recommended to put a value in nci Max Send T to ensure the RIB re-synchronizes itself on the network after power loss. It is the responsibility of the user to ensure this value does not cause conflicts in network traffic. (No value = No "heartbeat" updates / no re-synchronization; Low Value = Many updates but may cause many traffic collisions; High value = Few updates but many less collisions.)

